



Position Title: Staff Fellow – Magnetic Resonance Imaging Safety

Position Number: CDRH-OSEL-DBP-10

Salary Range: \$87,198 - \$134,798 (depending upon education and experience)

Position Information: Full-Time – appointment term of 3 years, with possibility of being extended.

Application Period: Friday, December 10, 2021, through Monday, January 10, 2022

Duty Location: Silver Spring, MD

Who may be considered: U.S. Citizens; Permanent Residents; and Non-Citizens

Job Summary: The Division of Biomedical Physics in the FDA’s Center for Devices and Radiological Health (CDRH), Office of Science and Engineering Laboratories (OSEL) has an opening in Silver Spring, MD for a full-time staff scientist / engineer with a focus in Magnetic Resonance Imaging (MRI) Safety related to electromagnetic effects. The candidate should have a strong background in electrical engineering, electromagnetics, and MRI, including interactions of electromagnetic fields with medical implants, with experience in one or more of the following areas: laboratory experience collecting MRI data preferably in the area of medical device safety and compatibility ; computational electromagnetic modeling; MRI hardware, including gradient and radio-frequency (RF) coils; MRI safety testing of medical devices (e.g., ISO TS 10974); electromagnetic dosimetry; and active implantable medical devices (AIMDs).

The position focuses on laboratory and computational research, and policy or consulting support for reviews of new medical devices and analysis of device failures. The successful candidate will generate written technical and scientific documents for peer-reviewed publications and consulting support activities. Excellent speaking and writing skills in English are required.

Educational Requirements: Applicants must possess a Ph.D. or equivalent degree in engineering, physics, or a related scientific field. The applicant must be able to demonstrate mastery of principles and practices of MRI imaging devices and operation and the ability to apply this to medical device safety in the MRI environment related to electromagnetic effects. This will enable the staff fellow to serve as a technical authority in the scientific analysis of the safety and effectiveness of medical devices; provide an authoritative analysis of scientific data submitted to the Agency; and develop new and innovative approaches to scientific testing required for medical device reviews by FDA. Applicants who have completed part or all their education outside the US must have their foreign education evaluated by an accredited organization to ensure that the foreign education is comparable to education received in accredited educational institutions in the US. This evaluation must also be provided by midnight Eastern Time on the closing date of this vacancy announcement. For more information on Foreign Education verification, visit the U.S. Department of Education. Another listing of services that can perform this evaluation is available at the National Association of Credential Evaluation Services (NACES) website.

Qualifications: Please document knowledge, skills, and abilities relevant to each area described below:

- Ph.D. from an accredited university in engineering, physics, or a relevant health science field.



- At least three years of experience planning and conducting laboratory and/or computational (e.g., with multi-physics modeling software) research in the field of MRI, preferably with a focus on MRI safety and/or medical device safety in MRI electromagnetic fields.
- Experience reviewing, analyzing, and using scientific data or other information to advance MRI technology preferably with a focus on understanding of MRI safety as it relates to electromagnetic effects.
- Knowledge of the scientific principles and practices associated with evaluating MRI hardware, including gradient and RF coils, and preferably the behavior of implantable medical devices in the MRI environment.
- Demonstrated ability to participate in and contribute to multi-disciplinary teams and work groups to resolve difficult or controversial research questions.
- Excellent scientific writing and communication skills.

How to Apply: To apply for this announcement, applicants should provide a complete application package that includes the following: (a) a cover letter with compensation requirements, (b) curriculum vitae, (c) narrative responses to the **Qualifications Section**, and (d) names and contact information of three references

***Note:** All supporting documents should include the announcement number.*

Applications should be sent via email to CDRH-OSEL-Opportunities@fda.hhs.gov. Applications must be received by **Monday, January 10, 2022**, to be considered. Electronic submission of application materials is encouraged. Applications sent via e-mail must be submitted as MS Word or Adobe pdf.

Contact Denise Townsend for Questions: Denise.Townsend@fda.hhs.gov

Additional Announcement Information

- COVID-19:** Due to COVID-19, the Agency is currently in an expanded telework posture. If selected, you may be expected to temporarily telework, even if your home is located outside the local commuting area. Once employees are permitted to return to the office, you will be expected to report to the duty station listed on this announcement within 45 days. At that time, you may be eligible to request to continue to telework one or more days a pay period depending upon the terms of the agency's telework policy. As required by Executive Order 14043, Federal executive branch employees are required to be fully vaccinated against COVID-19 regardless of the employee's duty location or work arrangement (e.g., telework, remote work, etc.), subject to such exceptions as required by law. If selected, you will be required to be vaccinated against COVID-19 and will receive instructions on how to provide documentation.
- Security and Background Requirements:** All candidates must meet applicable security requirements which include a background check and a minimum of 3 out of the past 5 years' residency status in the US. If not previously completed, a background security investigation will be required for all appointees. Appointment will be subject to the applicant's successful completion of a background security investigation and favorable adjudication. Failure to successfully meet these requirements may be grounds for appropriate personnel action. In addition, if hired, a background security reinvestigation or supplemental investigation may be required at a later time. Applicants are also advised that all information concerning qualifications is subject to investigation. False representation may be grounds for non-



consideration, non-selection, or appropriate disciplinary action.

3. **Benefits:** The Federal Government offers a comprehensive benefits package. Explore the major benefits offered to most Federal employees at <https://www.usa.gov/benefits-for-federal-employees>
4. For more information about Office of Science and Engineering Laboratories (OSEL) at FDA/CDRH: <https://www.fda.gov/about-fda/cdrh-offices/office-science-and-engineering-laboratories>.
5. Travel, transportation and relocation expenses **will not** be paid.